

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	1	((bias sense) and (writ\$3 record\$3)) near2 current same (calculat\$3 comput\$3 determin\$3) near3 (temperature temp) same (GMR or (giant near3 magnetoresist\$4))	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 10:10
L3	8	(reset\$4 repin\$4) near5 (temperature temp thermal) same (GMR or (giant near3 magnetoresist\$4))	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 10:04
L4	1	((bias sense) and (writ\$3 record\$3)) near2 current same (temperature temp) same (GMR or (giant near3 magnetoresist\$4))	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 10:11
L5	1	(reset\$4 re\$1set\$4) same (GMR or giant near2 magnetoresist\$4) same (chang\$3 alter\$3 another) near4 ((bias sense) near3 current)	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 11:48
L6	1	(retr\$3 re\$1perform\$3 reperform\$1 (try near3 again)) same (GMR or giant near2 magnetoresist\$4) same (chang\$3 alter\$3 another) near4 ((bias sense) near3 current)	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 11:50
L7	18	(retr\$3 re\$1perform\$3 reperform\$1 (try near3 again)) same (GMR or giant near2 magnetoresist\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 11:50
L9	26	("4103315" "4809109" "5027243" "5159513" "5193038" "5206590" "5231314" "5262914" "5264980" "5287238" "5301079" "5341261" "5440233" "5471358" "5508866" "5528440" "5557491" "5561368" "5576908" "5589768" "5650887" "5664319" "5772794" "5798896" "6118622" "6275028").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 11:53
L10	4	("6522134").URPN.	USPAT	OR	ON	2005/05/11 11:54
L11	5	("5650887" "5748399" "5903415" "5969523" "6118622").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 11:55
L12	1	("6490115").URPN.	USPAT	OR	ON	2005/05/11 11:55
L13	1	("6324029").URPN.	USPAT	OR	ON	2005/05/11 11:56
L14	11	("4881143" "5027243" "5189566" "5412518" "5523898" "5561368" "5650887" "5661614" "5664319" "5719719" "5969523").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 11:56
L15	7	("6118622").URPN.	USPAT	OR	ON	2005/05/11 11:59
L16	5	("5206590" "5412518" "5615063" "5650887" "5719719").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 12:00
S1	3	((("5969896") or ("6128160") or ("5650887"))).PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/05/09 13:40
S2	4	(magnetoresistive or GMR) same (bias optim\$5) near3 current and pinn\$3 near2 reset	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/18 15:31

S3	11	("4785366" "5027243" "5264980" "5576908" "5650887" "5664319" "5772794" "5783981" "5974657" "6181492" "6194896").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/18 15:28
S4	0	("6728055").URPN.	USPAT	OR	ON	2005/04/18 15:29
S5	1	("5974657").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/04/18 15:29
S6	362	(magnetoresistive or GMR) and (bias optim\$5) near3 current and pinn\$3 same resist\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/18 15:32
S7	307	S6 and dis\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/18 15:33
S8	273	S7 and "360"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/18 15:33
S9	1414	(360/53,323,324).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/04/19 10:31
S10	9434	(360/53,66,75,323,324).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/04/19 11:36
S11	1	dis\$1 and (GMR or (giant near3 magnetoresistive)) same (optimum maxim\$2) near4 (bias and write) same pinn\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/19 10:41
S12	7	pinn\$3 near3 reset\$4 same (sens\$3 determin\$3 detect\$3 control\$3) near3 (resistance resistive)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/19 10:41
S13	2	pinn\$3 near3 reset\$4 and (bias and write) near3 current	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/19 10:41
S14	324	S10 and (GMR or (giant near3 magnetoresistive))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/19 10:41
S15	3	(determin\$3 detect\$3 sens\$3) near4 (optimum maximum greatest) near4 (bias and write) near3 current	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/19 10:47

S16	2	(determin\$3 detect\$3 sens\$3) near4 (optimum maximum greatest) near4 (bias and write) near3 current same (resistance resistive)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/19 10:43
S17	5	S14 and pinning near4 reset\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/19 10:48
S18	4580	(360/25,53,66-68).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/04/19 11:36
S19	1	("6014562").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/04/19 11:52
S20	1	("6104562").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/04/19 11:52
S21	16	("4012781" "4575775" "4701815" "4729048" "5155643" "5218497" "5245487" "5335127" "5388014" "5412518" "5436773" "5493466" "5552950" "5566296" "5629682" "5754354").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/19 11:52
S22	6	("6104562").URPN.	USPAT	OR	ON	2005/04/19 11:53
S23	8	("5159513" "5206590" "5398146" "5440233" "5465185" "5583725" "5585986" "5589768").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/19 11:55
S24	5	("5206590" "5412518" "5615063" "5650887" "5719719").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/19 11:56
S25	6	("5465185" "5650887" "5657190" "5748412" "5757591" "5828529").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/19 11:58
S26	32	S18 and (GMR or giant near3 magnetoresistive) same bias near3 current	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/19 12:05
S27	20	(select\$3 determin\$3) near4 (optimum maximum) near4 bias near2 current same (resistance or resistive)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/19 12:09
S28	2	(select\$3 determin\$3) near4 (optimum maximum) near4 bias near2 current same (GMR or (giant near2 (magnetoresistive magnetoresistance)))	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/19 12:10
S29	4	(optimum maximum) near4 bias near2 current same (GMR or (giant near2 (magnetoresistive magnetoresistance)))	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/19 12:12
S30	58	pinning near4 reset\$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/19 12:12
S31	11	("4785366" "5027243" "5264980" "5576908" "5650887" "5664319" "5772794" "5783981" "5974657" "6181492" "6194896").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/19 12:15

S32	6	((pinning or pin) near3 reset\$4) same (GMR or (giant near2 magnetoresist\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/05/09 14:14
S33	8	((pinning or pin) near3 reset\$4) same control\$4 same read near4 (element or head or transducer)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/05/09 14:15
S34	1	((pinning or pin) near3 reset\$4) same control\$4 same bias near3 (optimum optimal maximum) near2 current	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/05/09 14:17
S35	4	("5701223" "5768069" "6038107" "6122150").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/09 14:20
S36	114421	("324").CLAS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/05/09 14:20
S37	696	S36 and ((giant near2 magnetoresist\$4) or GMR)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/05/09 14:20
S38	2	S37 and (optimum optimal maximum) near3 bias near3 current	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/05/09 14:22
S39	1	S37 and ((pinning pinned pin) near4 bias near3 current)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/05/09 14:23
S40	1	S37 and ((pinning pinned pin) near3 reset\$4 near4 bias near3 current)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/05/09 14:30
S41	8098	((pinning pinned pin) near3 reset\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/05/09 14:30
S42	20	S41 same (bias near4 current)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/05/09 14:32
S43	1	(control\$4 determin\$3) near5 bias near4 current same pin near3 reset	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/05/09 14:34

S44	2	(CPU or process\$3) near4 determin\$3 near4 (optimum optimal maximum) near3 current same (temperature or temp) near4 read near4 (element head transducer GMR)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/05/09 14:35
S45	6	(GMR or giant near2 magnetoresist\$4) same (pinning pin) near3 (reset resetting)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/05/10 10:33
S46	1	("5974657").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/05/10 10:33
S47	8	("5159513" "5206590" "5398146" "5440233" "5465185" "5583725" "5585986" "5589768").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/10 11:13
S48	69	("5650887").URPN.	USPAT	OR	ON	2005/05/10 11:18
S49	18	(reset\$4 re\$1set\$3 re\$1pinning re\$1pin) same (optimum maximum) near3 bias near3 current	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/05/10 11:54
S50	24	("4103315" "4809109" "5027243" "5159513" "5193038" "5206590" "5231314" "5262914" "5264980" "5287238" "5301079" "5341261" "5440233" "5471358" "5508866" "5528440" "5557491" "5561368" "5576908" "5589768" "5650887" "5664319" "5772794" "5798896").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/10 14:16
S51	5	("5650887" "5748399" "5903415" "5969523" "6118622").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/10 14:17
S52	7	("6118622").URPN.	USPAT	OR	ON	2005/05/10 14:18
S53	6	("5465185" "5650887" "5657190" "5748412" "5757591" "5828529").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/10 14:23
S56	23	(reset\$4 re\$1set\$4) near9 (GMR or giant near2 magnetoresist\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 11:47
S57	24	(reset\$4 re\$1set\$4 re\$1initializ\$5 re\$1pin\$4) near9 (GMR or giant near2 magnetoresist\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/10 15:02
S58	9	(reset\$4 re\$1set\$4 re\$1initializ\$5 re\$1pin\$4) same bias near3 current same (GMR or giant near2 magnetoresist\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/10 14:51
S59	1	(optimal optimum maximum max) near3 (bias sense) near2 current near6 (reset\$4 re\$1pin\$4 re\$1initializ\$5) same (GMR or (giant near3 magnetoresist\$4))	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/10 15:04
S60	1	(optimal optimum maximum max) near3 (bias sense) near2 current same (reset\$4 re\$1pin\$4 re\$1initializ\$5) same (GMR or (giant near3 magnetoresist\$4))	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/10 15:06

S61	11	(optimal optimum maximum max) near3 (bias sense) near2 current same (GMR or (giant near3 magnetoresist4))	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/10 15:21
S62	1	(optimal optimum maximum max) near3 ((bias sense) and (writ3 record3)) near2 current same (GMR or (giant near3 magnetoresist4))	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/10 15:23
S63	68	((bias sense) and (writ3 record3)) near2 current same (GMR or (giant near3 magnetoresist4))	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/11 09:55